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## Results of antibiotic impregnated cement coated IM nail in management of infected nonunion and compound fractures of long bones

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**Aims and Objectives:** The aim of study is to analyze the results of antibiotic impregnated cement coated IM Nail in management of infected nonunion and compound fractures of long bones (upto Grade 3A); to assess the effectiveness in eradication of infection, the rate of bony union and the functional return of the limb in the post-operative period.

**Design:** Prospective study.

**Setting:** Private Hospital Setup.

**Intervention:** Surgery.

**Patients:** A total of 25 patients were included in the study with infected nonunion and compound fractures of long bones (upto Grade 3A) for treatment with this method from August 2013 to May 2017.

**Main outcome measurement:** A minimum of 2.5

years follow up was done to assess the return of the functional outcome of the limb, rate of bony union (According to ASASMI criteria) and effectiveness in eradication of infection.

**Results:** There were excellent results in bony union at the fracture site (except in 3 cases) and excellent results in the functional outcome of the limbs. Control of infection was also achieved in most of the patients (except in 3 cases). Overall, the outcome following this treatment for infected nonunion and compound fracture of long bone was good to excellent.

**Conclusion:** In our study we found that bony union, infection control and functional results are good to excellent. Radical debridement with removal of all sequestered bone fragment is mandatory before implantation of antibiotic coated IM nail in infected nonunion of long bones.

### Biography

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